22. (original) The system of claim 19, wherein the laser source is configured to generate the laser bursts with a separation of less than 2.0 milliseconds.

23. (original) The system of claim 19, wherein the laser burst comprises 1-24 laser pulses.

24. (original) The system of claim 22, the laser pulses are separated by less than 2.0 milliseconds.

25. (original) The system of claim 23, wherein pulses have pulse widths of less than 100 microseconds.

26. (previously amended) The system of claim 19, wherein the laser applicator comprises a flexible optical fiber with a firing end having a diameter of less than 500 microns.

27. (original) The system of claim 26, wherein the optical fiber is selected from the group consisting of fused silica fiber and a sapphire fiber.

28. (original) The system of claim 26, wherein the applicator further comprises structure for shielding unwanted laser light from the vascular tissue.

29. (original) The system of claim 26, wherein the applicator further comprises means to control a distance of the firing end from the vascular tissue.

30. (original) The system of claim 29, wherein the means to control the distance of the firing end from the vascular tissue is a shroud structure.

31. (original) The system of claim 19, wherein applicator is flexible allowing the laser light to be delivered to the vascular tissue at a range of approach angles.

32. (previously presented) A laser system comprising:

a. means to generate bursts of laser light comprising laser pulses;

b. means to focus the laser light into a trunk optical fiber; and

c. flexible endo-probe coupled to the trunk optical fiber, the endo-probe comprises a delivery optical fiber with an input end for receiving laser radiation from the truck fiber and a firing end for exposing a target area of vascular tissue, wherein the target area of vascular tissue is located within the cavity of a body.

33. (previously presented) The laser system of claim 32, wherein the flexible endo-probe comprises guide structures through which the delivery fiber extends, wherein guide structure is configured be bent and to guide the firing edge of the delivery optical fiber at preferred angles relative to the target area of the vascular tissue.

34. (previously presented) The laser system of claim 32, wherein input end of the delivery optical fiber has a diameter of less than 500 microns.

35. (previously presented) The laser system of claim 33, wherein the firing end of the delivery optical fiber has a diameter of 300 micron or less.

36. (previously presented) The laser system of claim 32, wherein the firing end of the delivery optical fiber has a diameter in a range of 50 to 225 micron.

37. (previously presented) The laser system of claim 32, wherein the guide structure is a tubular housing structure that is bent at an angle between 0 to 90 degrees.

38. (previously presented) The laser system of claim 32, wherein the delivery optical fiber is a side firing optical fiber.

39. (previously presented) The laser system of claim 32, wherein the guide structure further comprises a shield member extending in front of a portion the firing end of the delivery optical fiber for blocking laser light emitted from the firing end at angles other than the preferred angles.

40. (previously presented) The laser system of claim 39, wherein the means to generate bursts of laser light comprises an Er:YAG laser medium.

41. (previously presented) The laser system of claim 32, wherein means to generate bursts of laser light is configured to provide between 5 and 200 mJ/per pulse.

42. (previously presented) The laser system of claim 32, wherein the means to generate bursts of laser light is configured to generate laser pulse with a repetition rate between 40 and 10 Hz.

43. (previously presented) The laser system of claim 32, wherein the means to generate bursts of laser light is configured to generate a burst of laser light that are separations of less than 2.0 milliseconds.

44. (previously presented) The laser system of claim 32, wherein the means to generate bursts of laser light is configured to generate 1-20 laser pulses for each laser burst.

45. (previously presented) The laser system of claim 44, wherein means to generate bursts of laser light is configured to generate the laser pulses at pulse separations of less than 2.0 milliseconds.

46. (previously presented) The laser system of claim 32, wherein the delivery optical fiber is selected from the group consisting of a fused silica fiber and sapphire fiber.

47. (previously presented) The laser system of claim 32, wherein the trunk fiber is a sapphire optical fiber.